CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) **A~~Device~~ device** for controlling a piezoelectric actuator, **~~in particular~~for use in** a fuel injection valve of an internal combustion engine, **said device** comprising an energy source **~~which supplies~~to supply** the actuator with energy, **~~whereby the~~wherein an** extension of the **~~piezoelectric~~** actuator corresponds with a predetermined response to changes in temperature, and a **~~compensation~~** capacitor **~~which~~** is connected in parallel with the **~~piezoelectric~~** actuator **~~for which~~wherein** the capacitance is **~~dimensioned in~~** such **~~a way~~** that**[[,]]** for a constant amount of energy delivered by the energy source**~~, the~~** extension of the actuator is almost constant across **[[the]]a** temperature range.

2. (Currently Amended) **A~~Device~~ device** according to Claim 1, wherein the energy source, a controller controlling the energy source and a compensation capacitor are accommodated in a housing and are connected via a cable with the piezoelectric actuator.

3. (Currently Amended) **A~~Device~~ device** in accordance with Claim 1, wherein the energy source, a control circuit controlling the energy source, the compensation capacitor, and the piezoelectric actuator are accommodated in a housing, whereby the control circuit can be controlled by an external controller.

4. (Currently Amended) **A~~Device~~ device** in accordance with Claim 1, wherein the compensation capacitor has a capacitances of around 10,5µF.

5. (Currently Amended) **A~~Device~~ device** according to Claim 3, wherein the housing is a fuel injection valve housing.

6. (Currently Amended) **A~~Device~~ device** according to Claim 3, further comprising a temperature sensor coupled with the external controller for determining the temperature of the housing.

7. (Currently Amended) **A~~Device~~ device** according to Claim 2, further comprising a measurement line coupled with the controller and the actuator used to determine the voltage at the actuator.

8. (Currently Amended) **A~~Device~~ device** according to Claim 2, further comprising a temperature sensor coupled with the actuator and electrically coupled with a measurement line used to transmit the temperature value of the actuator to the controller.

9. (Currently Amended) **A~~Method~~ method** for controlling a piezoelectric actuator, **~~in particular~~for use in** a fuel injection valve of an internal combustion engine, **said method** comprising the steps of:

- supplying the actuator with energy, **~~whereby the~~wherein an** extension of the **~~piezoelectric~~** actuator corresponds with a predetermined response to changes in temperature, and

- compensating the extension of the **~~piezoelectric~~** actuator **~~by means of~~via a** capacitor coupled in parallel with the actuator, wherein the capacitance is dimensioned in such a way that**[[,]]** for a constant amount of energy delivered by **[[the]]an** energy source**~~, the~~** extension of the actuator is almost constant across **[[the]]a** temperature range.

10. (Currently Amended) **A~~Method~~ method** according to Claim 9, further comprising the step of sensing the voltage of the actuator.

11. (Currently Amended) **A~~Method~~ method** according to Claim 9, further comprising the step of sensing the temperature of the actuator.

12. (Currently Amended) **A~~Fuel~~ fuel** injection valve comprising:

- a piezoelectric actuator;

- an energy source ~~which supplies~~**to supply** the actuator with energy, whereby **[[the]]an** extension of the ~~piezoelectric~~ actuator corresponds with a predetermined response to changes in temperature, and

- a ~~compensation~~ capacitor ~~which is~~ connected in parallel with the ~~piezoelectric~~ actuator ~~for which~~**wherein** the capacitance is ~~dimensioned in~~ such ~~a way~~ that**[[,]]** for a constant amount of energy delivered by the energy source the extension of the actuator is almost constant across **[[the]]a** temperature range.

13. (Currently Amended) **[[The]]A** valve according to Claim **12**, wherein the energy source, a controller controlling the energy source and a compensation capacitor are accommodated in a housing and are connected via a cable with the piezoelectric actuator.

14. (Currently Amended) **[[The]]A** valve in accordance with Claim 12, wherein the energy source, a control circuit controlling the energy source, the compensation capacitor, and the piezoelectric actuator are accommodated in a housing, whereby the control circuit can be controlled by an external controller.

15. (Currently Amended) **[[The]]A** valve in accordance with Claim 12, wherein the compensation capacitor has a capacitances of around 10,5µF.

16. (Currently Amended) **[[The]]A** valve according to Claim 14, wherein the housing is the housing of the fuel injection valve.

17. (Currently Amended) **[[The]]A** valve according to Claim 14, further comprising a temperature sensor coupled with the external controller for determining the temperature of the housing.

18. (Currently Amended) **[[The]]A** valve according to Claim **13**, further comprising a measurement line coupled with the controller and the actuator used to determine the voltage at the actuator.

19. (Currently Amended) **[[The]]A** valve according to Claim 13, further comprising a temperature sensor coupled with the actuator and electrically coupled with a measurement line used to transmit the temperature value of the actuator to the controller.

20. (New) A device for controlling a piezoelectric actuator for use in a fuel injection valve of an internal combustion engine said device comprising:

an energy source to supply energy to the actuator,

a controller for controlling the energy source,

a measurement line coupled with the controller and actuator to determine a voltage at the actuator, and

a compensation capacitor connected with the actuator having a capacitance such that for a constant amount of energy delivered by the energy source, an extension of the actuator is almost constant across a temperature range, wherein the energy source, the controller, and the capacitor are accommodated in a housing and connected via a cable with the actuator.

21. (New) A method for controlling a piezoelectric actuator for use in a fuel injection valve of an internal combustion engine, said method comprising the steps:

supplying the actuator with energy, wherein an extension of the actuator corresponds with a predetermined response to changes in temperature,

compensating the extension of the actuator via a capacitor coupled with the actuator, said capacitor having a capacitance wherein for a constant amount of energy delivered by an energy source, the extension of the actuator is almost constant across a temperature range, and

sensing the voltage of the actuator.

22. (New) A fuel injection valve comprising:

a piezoelectric actuator,

an energy source to supply the actuator with energy, wherein an extension of the actuator corresponds with a predetermined response to changes in temperature,

a controller for controlling the energy source,

a compensation capacitor connected with the actuator having a capacitance such that for a constant amount of energy delivered by the energy source, extension of the actuator is almost constant across a temperature range, and

a measurement line coupled with the actuator used to determine the voltage at the actuator, wherein the energy source, the controller, and the capacitor are accommodated in a housing and connected via a cable with the actuator.